Please type a plus sign (+) inside this box —

PTO/SB/05 (11-00) Approved for use through 10/31/2002 OMB 0651-0032

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Inder the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

## UTILITY PATENT APPLICATION **TRANSMITTAL**

Attorney Docket No. First Inventor

(Unity for new homprovisional	i applications under 37 CFR 1.55(b))			
7.,	ION ELEMENTS	ADDRESS TO: Assistant Commissioner for Patents Box Patent Application		
	ming utility patent application contents.	Washington, DC 20231		
Fee Transmittal For	m (e.g., PTO/SB/17)	7. CD-ROM or CD-R in duplicate, large table or		
1. Submit an original and a du		Computer Program (Appendix)		
2. X See 37 CFR 1.27.		<ol> <li>Nucleotide and/or Amino Acid Sequence Submission         (if applicable, all necessary)</li> </ol>		
3. Specification (preferred arrangement s	[Total Pages 50]	a. Computer Readable Form (CRF)		
- Descriptive title o	of the invention	b. Specification Sequence Listing on:		
- Cross Reference - Statement Regar	to Related Applications rding Fed sponsored R & D	i. CD-ROM or CD-R (2 copies); or		
- Reference to seq	uence listing, a table,	ii. 🗌 paper 🚡		
or a computer pro - Background of the	ogram listing appendix	c. Statements verifying identity of above copies		
- Background or tr		ACCOMPANYING APPLICATION PARTS		
<ul> <li>Brief Description</li> </ul>	of the Drawings (if filed)			
- Detailed Descrip	tion	9. Assignment Papers (cover sheet & document(s))		
<ul><li>Claim(s)</li><li>Abstract of the E</li></ul>	Disclosure	10. 37 CFR 3.73(b) Statement (when there is an assignee) Power of Attorney		
4. X Drawing(s) (35 U.	S.C. 113) Total Sheets	11. English Translation Document (if applicable)		
5. Oath or Declaration	[ Total Pages 3	12. X Information Disclosure Statement (IDS)/PTO-1449 X Copies of IDS		
a. X Newly execut	ted (original or copy)	13. Preliminary Amendment		
Copy from a s	prior application (37 CFR 1.63 (d)) ion/divisional with Box 18 completed)	Return Receipt Postcard (MPEP 503) (Should be specifically itemized)		
i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s)  15. Certified Copy of Priority Document(s (if foreign priority is claimed)				
named in th	ne prior application, see 37 CFR and 1 33(b).	16. Request and Certification under 35 U.S C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35		
or its equivalent.  Application Data Sheet. See 37 CFR 1.76  Other:				
18. If a CONTINUING APPLIC or in an Application Data She	CATION, check appropriate box, and su	oply the requisite information below and in a preliminary amendmer		
I	Divisional Continuation-in-part (CIP	of prior application No		
Continuation		Group Art Unit		
Prior application information	Examiner	the prior application, from which an oath or declaration is supplied und		
Day the in name ideased a part of	the disclosure of the accompanying conti	nuation or divisional application and is nereby incorporated by relevance		
The incorporation can only be	relied upon when a portion has been inad	ertently omitted from the submitted application parts.		
·	19. CORRESPON	DENCE ADDRESS		
Customer Number or Bar Co	ode Label	or Correspondence address below		
Name	Bor Z. Jan	9		
	2076 S. Evergr			
		<u> </u>		
Address	Λ Ι	State AL Zip Code 36830		
City	Auburn			
Country	USA T	elephone 334 82) 9923 Fax 334821 56.		
Name (Print/Type)	Bor Z. Jang	Registration No. (Attorney/Agent)		
Signature	Bon 30 85	Date 03/13/200		
	<u> </u>			

Burden Hour Statement This form is estimated to take 0.2 hours to complete Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS SEND TO. Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231

PTO/SB/17 (11-00)

Approved for use through 10/31/2002. OMB 0651-0032
U.S Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

## FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT

THE THE

(\$) 436.

Complete if Known				
Application Number				
Filing Date				
First Named Inventor	J.H. Liw			
Examiner Name				
Group Art Unit				
Attorney Docket No.				

METHOD OF PAYMENT	FEE CALCULATION (continued)					
The Commissioner is hereby authorized to charge	3. ADDITIONAL FEES					
indicated fees and credit any overpayments to.  Deposit	Large Small Entity Entity					
Account Number	Fee Fee Fee Fee Fee Description	Fee Paid				
Deposit	Code (\$) Code (\$)					
Account Name	105 130 205 65 Surcharge - late filing fee or oath					
Charge Any Additional Fee Required	127 50 227 25 Surcharge - late provisional filing fee or cover sheet					
Under 37 CFR 1 16 and 1 17  Applicant claims small entity status	139 130 139 130 Non-English specification					
See 37 CFR 1 27	147 2,520 147 2,520 For filing a request for ex parte reexamination					
2. X Payment Enclosed:  V Check Credit card Money Other	112 920* 112 920* Requesting publication of SIR prior to Examiner action					
LA Order	113 1,840* 113 1,840* Requesting publication of SIR after Examiner action					
FEE CALCULATION	115 110 215 55 Extension for reply within first month					
1. BASIC FILING FEE	116 390 216 195 Extension for reply within second month					
Large Entity Small Entity Fee Fee Fee Fee Description	117 890 217 445 Extension for reply within third month					
Code (\$) Code (\$)	118 1,390 218 695 Extension for reply within fourth month					
101 710 201 355 Utility filing fee 355	128 1,890 228 945 Extension for reply within fifth month					
106 320 206 160 Design filing fee	119 310 219 155 Notice of Appeal					
107 490 207 245 Plant filing fee  108 710 208 355 Reissue filing fee	120 310 220 155 Filing a bnef in support of an appeal					
114 150 214 75 Provisional filing fee	121 270 221 135 Request for oral hearing					
	138 1,510 138 1,510 Petition to institute a public use proceeding					
SUBTOTAL (1) (\$) 355	140 110 240 55 Petition to revive - unavoidable					
2. EXTRA CLAIM FEES	141 1,240 241 620 Petition to revive - unintentional					
Extra Claims below Fee Paid						
Total Claims 29 -20** = 9 × 9 = 8	143 440 243 220 Design issue fee					
Independent Claims X 40 = 0	144 000 244 000					
Multiple Dependent	122 130 122 130 Petitions to the Commissioner					
Large Entity Small Entity	123 130 123 130 Petitions related to provisional applications 126 180 126 180 Submission of Information Disclosure Stmt					
Large Entity Small Entity Fee Fee Fee Fee Description Code (\$) Code (\$)	581 40 581 40 Recording each patent assignment per					
103 18 203 9 Claims in excess of 20	property (times number of properties)					
102 80 202 40 Independent claims in excess of 3	146 710 246 355 Filing a submission after final rejection (37 CFR § 1.129(a))					
104 270 204 135 Multiple dependent claim, if not paid	149 710 249 355 For each additional invention to be					
109 80 209 40 ** Reissue independent claims over original patent	examined (37 CFR § 1.129(b))					
110 18 210 9 ** Reissue claims in excess of 20 and over original patent	179 710 279 355 Request for Continued Examination (RCE)					
	169 900 169 900 Request for expedited examination of a design application					
SUBTOTAL (2) (\$) 8]	Other fee (specify)					
002101112 (2)	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$)	0				
**or number previously paid, if greater; For Reissues, see above Reduced by Basic Filing Fee Paid SUBTOTAL (3)						

OUDMITTED BY			Complete (if applicable)	
SUBMITTED BY  Name (Print/Type)	B Z Jana	Registration No. (Attorney/Agent)	Telephone 334 8 219923	
	13012 29	(Allomo prigority	Date	3/13/2001
Signature	W W Sell			The same of the sa

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO. Assistant Commissioner for Patents, Washington, DC 20231

PTO/SB/06 (08-00)

Approved for use through 10/31/2002. OMB 0651-0032
U. S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE of a collection of information unless it displays a valid OMB control number. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a Application or Docket Number PATENT APPLICATION FEE DETERMINATION RECORD OTHER THAN CLAIMS AS FILED - PART I **SMALL ENTITY** OR **SMALL ENTITY** (Column 2) (Column 1) FOR NUMBER FILED **NUMBER EXTRA** RATE FEE RATE FEE s 355 BASIC FEE OR \$ (37 CFR 1.16(a)) TOTAL CLAIMS 59 minus 20 = OR (37 CFR 1.16(c)) INDEPENDENT CLAIMS 3 0 O 40= minus 3 = OR = (37 CFR 1.16(b)) (37 CFR 1.16(d)) MULTIPLE DEPENDENT CLAIM PRESENT D OR 436 TOTAL OR TOTAL \* If the difference in column 1 is less then zero, enter "0" in column 2 OTHER THAN CLAIMS AS AMENDED - PART II **SMALL ENTITY** OR **SMALL ENTITY** (Column 1) (Column 2) (Column 3) **CLAIMS** HIGHEST ADDI-ADDI-⋖ REMAINING NUMBER PRESENT RATE TIONAL RATE TIONAL AMENDMENT AFTER **PREVIOUSLY EXTRA** FEE FEE AMENDMENT PAID FOR OR Total Minus = (37 CFR 1.16(c)) OR Independent \*\*\* Minus = (37 CFR 1.16(b)) OR FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1 16(d)) OR TOTAL TOTAL ADDIT. FEE ADDIT FEE (Column 1) (Column 2) (Column 3) CLAIMS HIGHEST ADDI-ADDI-REMAINING NUMBER PRESENT RATE TIONAL RATE TIONAL ENDMENT **AFTER PREVIOUSLY EXTRA** FEE FEE AMENDMENT PAID FOR OR Total Minus \$ x \$ (37 CFR 1.16(c)) OR Independent AMI Minus OR (37 CFR 1.16(b)) FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1 16(d)) OR TOTAL TOTAL OR ADDIT. FEE ADDIT. FEE (Column 1) (Column 2) (Column 3) CLAIMS HIGHEST ADDI-ADDI-REMAINING NUMBER PRESENT RATE TIONAL TIONAL RATE **AMENDMENT** AFTER **PREVIOUSLY EXTRA** FEE FEE AMENDMENT PAID FOR OR Total \*\* Minus (37 CFR 1.16(c)) OR Independent Minus = (37 CFR 1.16(b)) OR FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1 16(d)) OR TOTAL TOTAL OR \* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ADDIT. FEE ADDIT. FEE \*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". \*\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

PTO/SB/07 (08-00)
Approved for use through 10/31/2002. OMB 0651-0032
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

## Application Number Filing Date MULTIPLE DEPENDENT CLAIM FEE CALCULATION SHEET JH. Liu & B. Z. Jang (For use with Form PTO/SB/06) May be used for additional claims or amendments AFTER FIRST AMENDMENT AFTER SECOND AMENDMENT AS FILED CLAIMS Indep Depend Indep Depend Indep Depend Indep Depend Indep Depend Indep Depend <u> 1</u> メ X X Total Indep Total Indep Total Depend Total Total Claims

H

That have

Burden Hour Statement This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231